

NSLS OHSAS Job Risk Assessment

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Name(s) of Risk Team Members: M. Buckley, B. Chmiel, B. Scheuerer, G. Van Derlaske, R. Van Houten		Point Value → Parameter ↓	1	2	3	4	5
Job Title: Routine Chemical Use Job Number or Job Identifier: LS-JRA-0021	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift	
Job Description: Use of alcohols, acetone, epoxies, glues, paints, lubricants and other common industrial and household chemicals. (This excludes use of these chemicals in laboratory settings.) Training and Procedure List (Optional): Hazard Communication (HP-IND-200) Approved by: W. R. Casey Date: 10/17/05 Rev. # 1 Revision Log	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability	
	Likelihood (D)	Extremely Unlikely <<1x/20yrs	Unlikely 1x/10-20yrs	Possible >1x/10-20yrs	Probable 1x/yr	Multiple >1x/yr	
		Stressors (if applicable, please list all):		Reason for Revision (if applicable):		Comments:	

[illegible]

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		Before Controls							After Initial Controls						After Additional Controls					
Job Step / Task	Hazard	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Initial Controls	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Storing containers	Fire, explosion	N	1	3	3	3	27	Segregation of hazard types, storage cabinets, proper ventilation, proper PPE, secondary containment, spill response, Tier I, proper labeling, training	1	3	3	2	18							
	Chemical reactions	N	1	3	2	3	18	Segregation of hazard types, storage cabinets, proper ventilation, proper PPE, secondary containment, spill response, Tier I, proper labeling, training	1	3	2	2	12							
	Exposure via inhalation	N	1	3	2	3	18	Segregation of hazard types, storage cabinets, proper ventilation, proper PPE, secondary containment, spill response, Tier I, proper labeling, training	1	3	2	2	12							
Moving containers around the lab work area or the building	Spill with fire	N	1	4	2	3	24	Spill response, proper labeling, training, work planning, procedures	1	4	2	2	16							
	Spill with inhalation exposure	N	1	4	2	3	24		1	4	2	2	16							
	Spill with direct contact exposure	N	1	4	2	3	24		1	4	2	2	16							

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Use of chemicals	Fire or explosion	N	1	3	3	3	27	MSDS, minimum quantities, avoid open flames, proper labeling, use of fume hoods where practical (ventilation), work planning or experimental review, PPE, avoid incompatibles, training	1	3	2	2	12							
	Exposure to skin, direct or sensitization	N	1	3	2	3	18	MSDS, minimum quantities, work planning or experimental review, PPE, training	1	3	2	2	12							
	Exposure via inhalation	N	1	3	2	4	24	MSDS, minimum quantities, proper labeling, use of fume hoods where practical (ventilation), work planning or experimental review, PPE, avoid incompatibles, training	1	3	2	3	18							
Mixing chemicals per manufacturers directions	Exposure to skin, direct or sensitization	N	1	3	2	3	18	MSDS, minimum quantities, work planning or experimental review, PPE	1	3	2	2	12							

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Job Step / Task	Hazard	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Initial Controls	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
	Exposure via inhalation	N	1	3	2	3	18	MSDS, minimum quantities, use of fume hoods where practical (ventilation), work planning or experimental review	1	3	1	3	9							
Changing/adding pump oils	Exposure via inhalation	N	1	2	1	3	6	Training, Lockout-tagout, PPE	1	2	1	2	4							
	Exposure to skin, direct or sensitization	N	1	2	1	3	6		1	2	1	2	4							
Disposing of chemicals	See LS-JRA-0026 "Generating Hazardous Waste"																			
	0 to 20 Negligible	21 to 40 Acceptable					41 to 60 Moderate				61 to 80 Substantial				81 or greater Intolerable					